

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P285853

Luminaire Tested: **PRV-XL-C150-D-UNV-T4-BZ-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T4-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37276 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

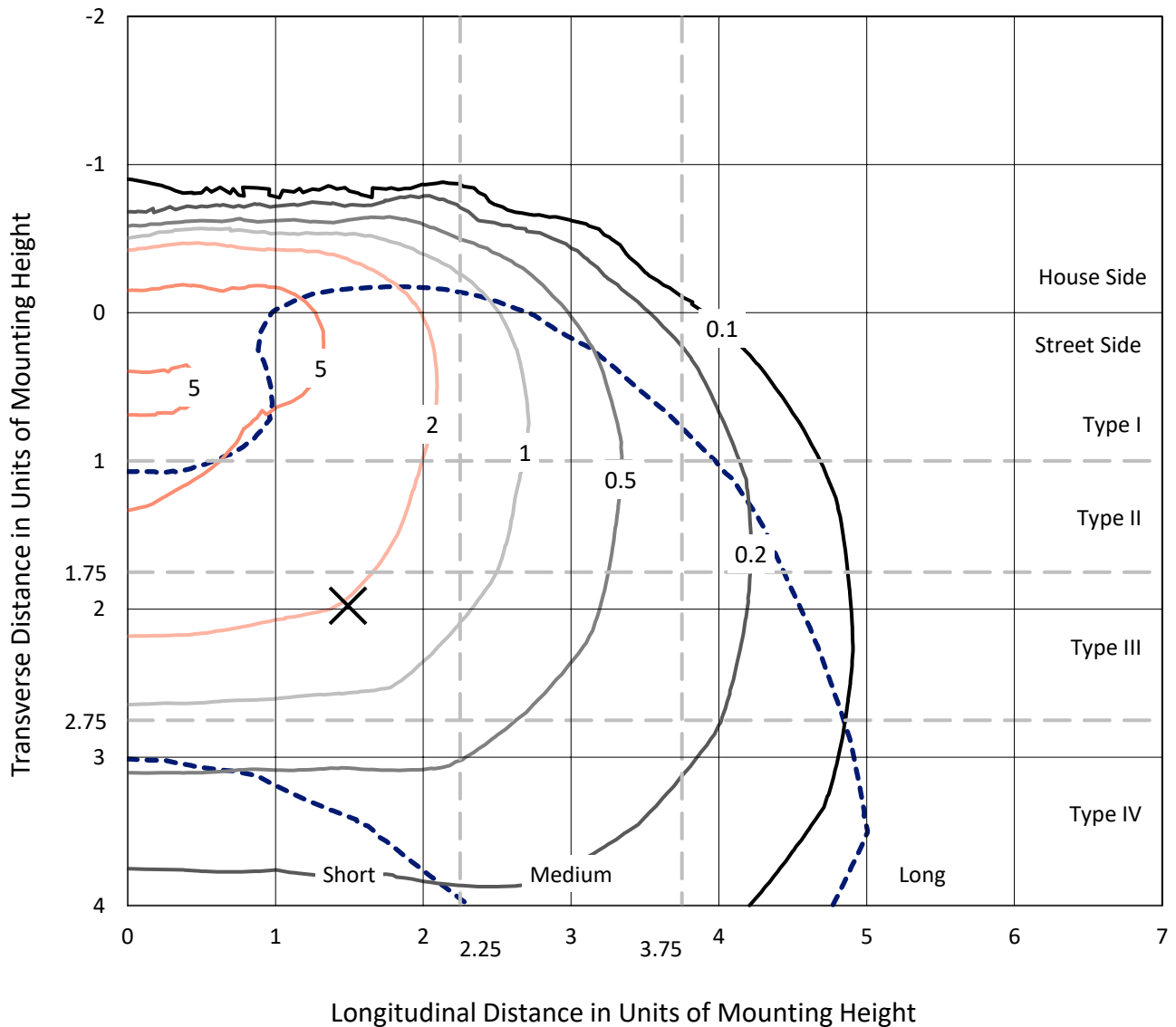
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

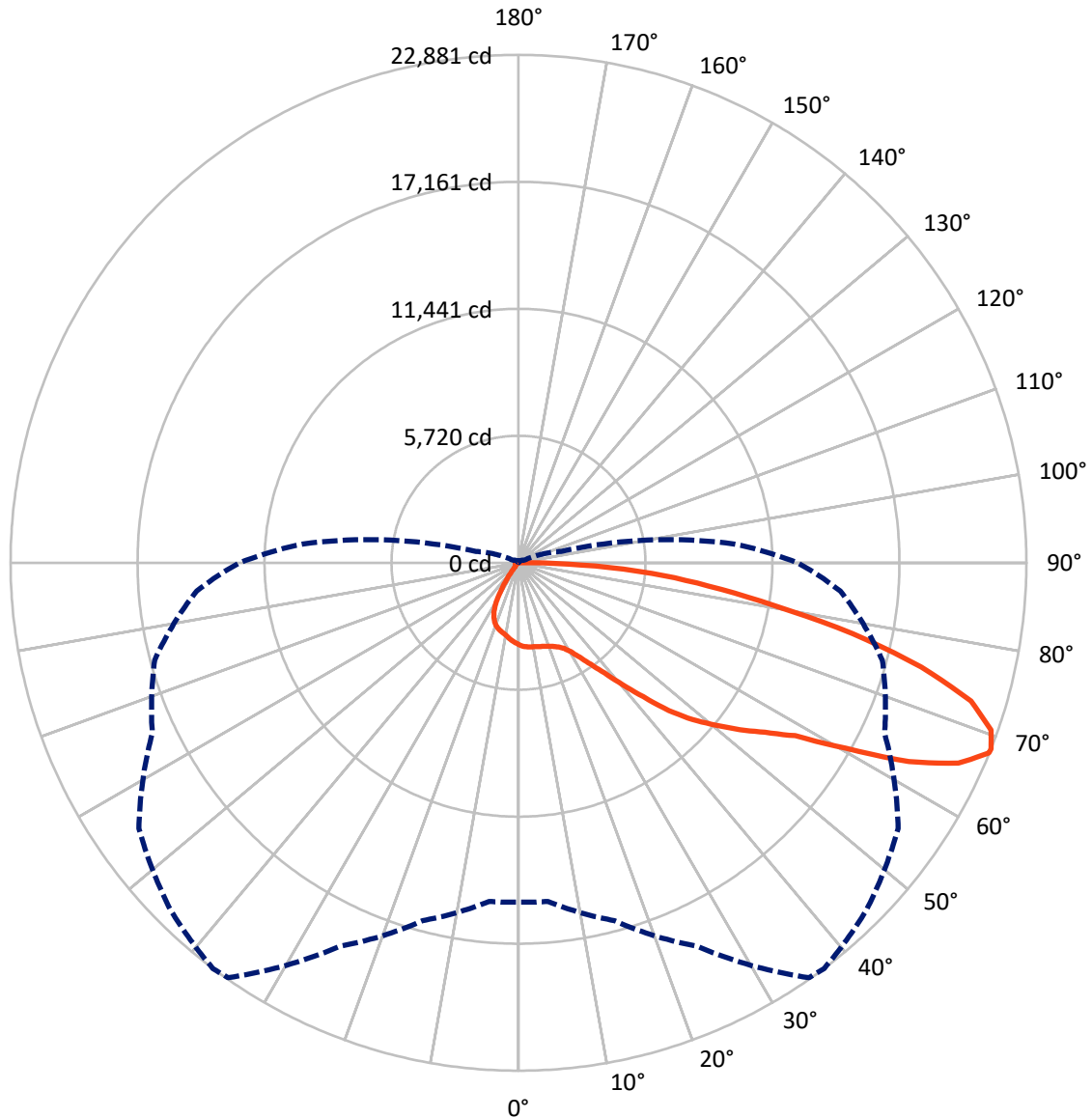
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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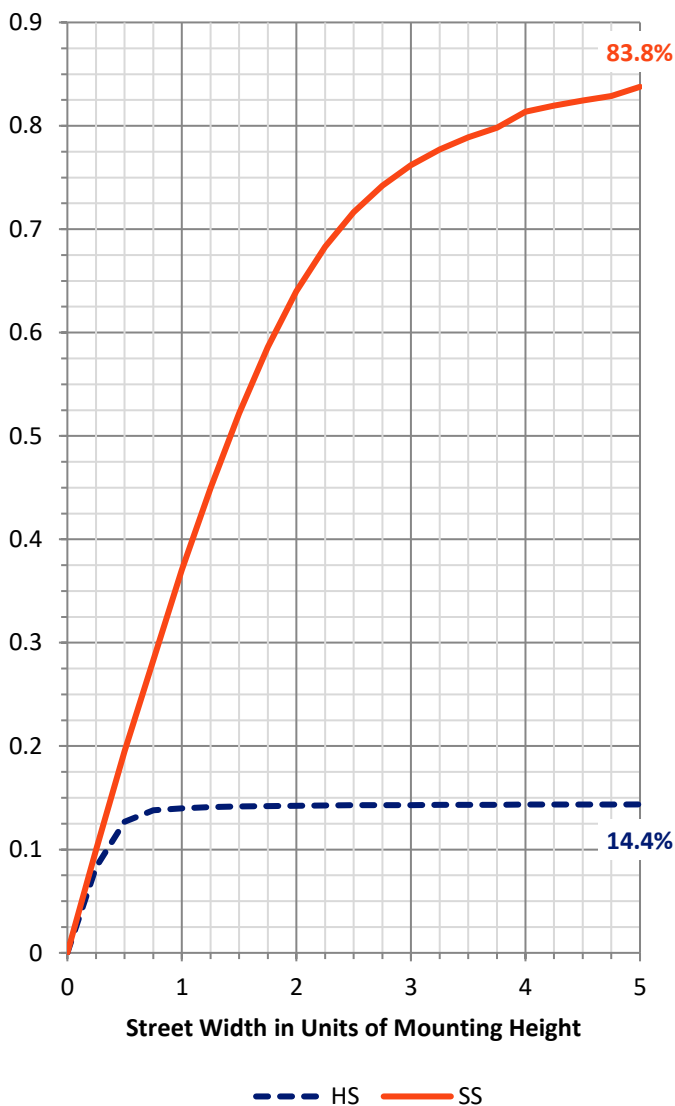
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5414.5	0.0	5414.5
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	31861.5	0.0	31861.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	37276.0	0.0	37276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	0.9
10°-20°	1034.2	2.8
20°-30°	1728.3	4.6
30°-40°	2807.2	7.5
40°-50°	5071.5	13.6
50°-60°	7554.4	20.3
60°-70°	9840.9	26.4
70°-80°	7245.4	19.4
80°-90°	1645.7	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37276.0	100.0
0°-180°	37276.0	100.0

Coefficient of Utilization

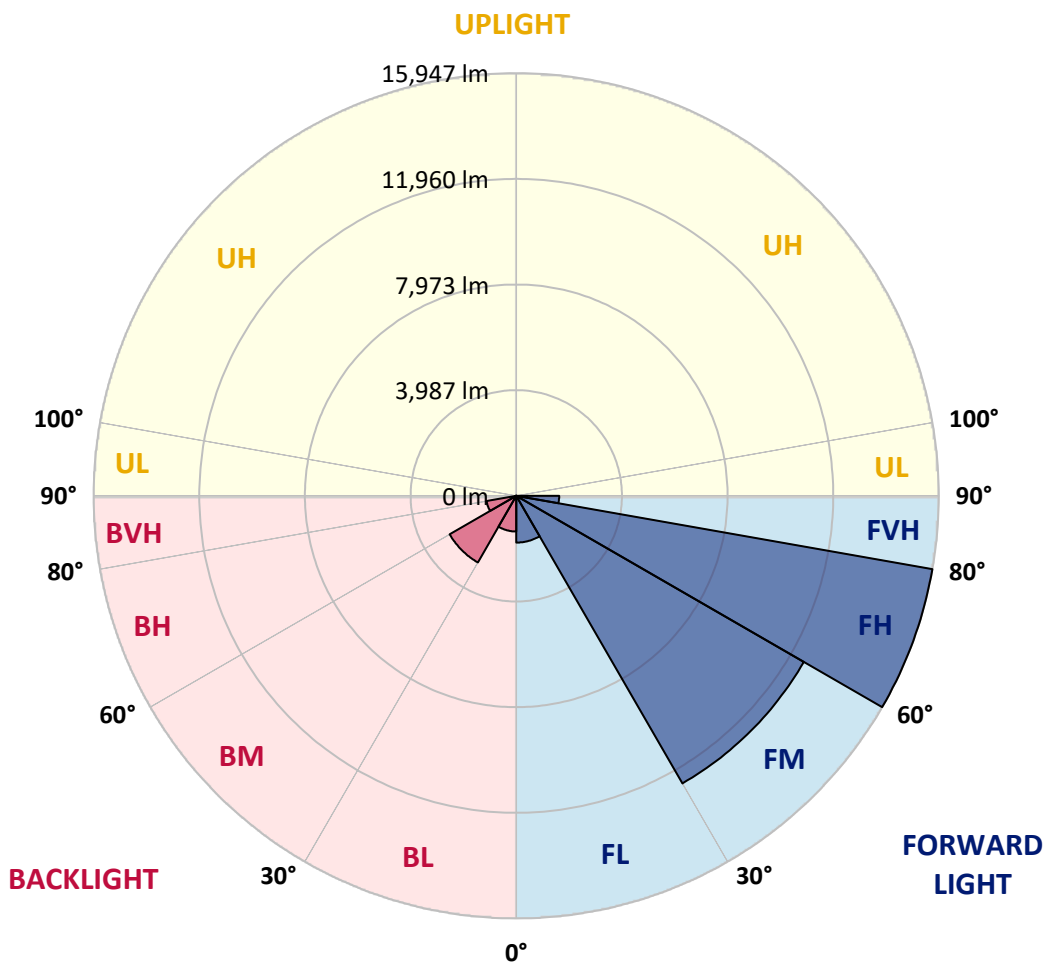


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.4	4.7			
FM (30°-60°)	12531.5	33.6			
FH (60°-80°)	15946.9	42.8			G5
FVH (80°-90°)	1618.7	4.3			G5
BL (0°-30°)	1346.6	3.6	B3/2500		
BM (30°-60°)	2901.6	7.8	B3/5000		
BH (60°-80°)	1139.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	27.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9
2.5°	3769.2	3772.3	3772.3	3767.6	3773.9	3769.2	3758.2	3747.1	3734.5	3684.2	3673.1
5°	3786.5	3794.4	3794.4	3792.8	3802.2	3800.7	3791.2	3781.8	3767.6	3707.8	3687.3
7.5°	3795.9	3803.8	3805.4	3802.2	3821.1	3824.3	3818.0	3818.0	3807.0	3747.1	3717.2
10°	3794.4	3795.9	3800.7	3808.5	3838.5	3846.3	3854.2	3866.8	3866.8	3818.0	3783.4
12.5°	3753.4	3755.0	3770.8	3807.0	3866.8	3879.4	3903.0	3937.6	3955.0	3928.2	3898.3
15°	3725.1	3725.1	3747.1	3803.8	3895.1	3912.5	3962.8	4016.4	4066.8	4063.6	4057.3
17.5°	3750.3	3755.0	3789.7	3838.5	3931.3	3950.2	4016.4	4103.0	4183.3	4217.9	4224.2
20°	3825.9	3830.6	3868.4	3918.8	3999.0	4013.2	4077.8	4181.7	4301.3	4376.9	4421.0
22.5°	3937.6	3940.8	3970.7	4008.5	4087.2	4096.7	4159.6	4271.4	4422.6	4551.7	4628.8
25°	4043.1	4049.4	4076.2	4104.5	4192.7	4200.6	4277.7	4395.8	4572.1	4745.3	4887.0
27.5°	4150.2	4161.2	4194.3	4233.6	4361.2	4364.3	4435.2	4551.7	4761.1	4997.2	5208.2
30°	4387.9	4375.3	4403.7	4455.6	4635.1	4646.1	4717.0	4847.7	5042.9	5309.0	5614.4
32.5°	4792.6	4778.4	4776.8	4854.0	5019.3	5072.8	5150.0	5356.2	5600.2	5864.7	6184.4
35°	5592.4	5570.3	5464.8	5439.7	5537.3	5612.8	5767.1	6069.4	6480.4	7058.2	7421.9
37.5°	6921.2	6892.9	6661.4	6389.0	6248.9	6296.1	6425.2	6844.0	7533.6	8757.0	9117.5
40°	8234.3	8240.6	7960.3	7506.9	7201.4	7210.9	7158.9	7642.3	8668.8	10342.4	10488.8
42.5°	9489.1	9478.1	9134.8	8720.8	8330.3	8253.2	8059.5	8478.3	9731.5	11620.9	11557.9
45°	10602.2	10580.2	10197.6	9966.1	9537.9	9497.0	9186.8	9326.9	10803.7	12637.9	12422.2
47.5°	11664.9	11646.1	11192.6	10973.8	10629.0	10558.1	10266.9	10337.7	11798.8	13437.8	13118.1
50°	12771.8	12809.6	12149.9	11898.0	11581.5	11488.6	11342.2	11384.7	12825.3	14190.3	13711.7
52.5°	14116.3	13925.8	13226.8	12760.7	12507.3	12488.4	12301.0	12390.8	13954.2	14851.6	14240.7
55°	15550.6	15298.7	14610.7	14003.0	13434.6	13467.7	13190.6	13322.8	14968.1	15423.1	14657.9
57.5°	16529.9	16523.6	16341.0	15760.0	14769.7	14700.4	14187.2	14299.0	15856.1	16013.5	14971.2
60°	17466.7	17723.3	17920.2	17660.4	17180.2	16959.8	15523.9	15316.0	16666.9	16547.3	15150.7
62.5°	18096.5	18175.2	18916.8	19135.6	19782.7	19740.2	18195.7	16547.3	17358.1	16893.6	15209.0
65°	17517.1	17581.7	18707.4	19760.7	21683.0	21771.2	21127.3	18579.8	17902.8	17013.3	15089.3
67.5°	15720.7	15767.9	17090.4	19271.0	22739.5	22856.0	22105.0	20700.6	18178.4	16992.8	14681.6
68°	15283.0	15316.0	16688.9	19064.8	22818.2	22881.2	22153.8	20876.9	18200.4	16969.2	14549.3
70°	13404.7	13398.4	14695.7	17839.9	22563.1	22582.0	21872.0	21069.0	18113.8	16745.6	13705.4
72.5°	10364.5	10566.0	11647.6	15026.4	21157.2	21308.3	20938.3	20538.4	17745.4	15841.9	11685.4
75°	7374.6	7532.1	8643.6	11718.5	18263.4	18740.4	19397.0	19543.4	16407.1	13615.7	8609.0
77.5°	5145.2	5312.1	6351.2	8752.3	14763.4	15386.9	16772.4	16989.7	13799.9	10322.0	4392.7
80°	3292.1	3451.1	4405.3	6365.4	11147.0	11679.1	13193.7	12880.4	9657.5	5529.4	769.9
82.5°	2001.1	2081.4	2802.5	4353.3	8124.1	8618.4	9122.2	7735.2	4622.5	782.5	247.2
85°	1136.7	1193.4	1719.3	2811.9	5738.8	6025.3	6138.7	3860.5	962.0	211.0	141.7
87.5°	302.3	420.4	928.9	1733.4	2887.5	2813.5	3032.4	1382.3	173.2	91.3	67.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9
2.5°	3660.5	3657.4	3646.4	3641.7	3646.4	3641.7	3607.0	3610.2	3610.2	3592.8	3581.8
5°	3668.4	3660.5	3625.9	3619.6	3600.7	3570.8	3514.1	3501.5	3490.5	3462.2	3457.4
7.5°	3690.5	3679.4	3624.3	3599.1	3547.2	3493.7	3416.5	3370.9	3348.8	3314.2	3318.9
10°	3755.0	3731.4	3652.7	3603.9	3506.3	3418.1	3306.3	3237.0	3196.1	3144.1	3161.5
12.5°	3871.5	3835.3	3737.7	3652.7	3503.1	3372.4	3213.4	3085.9	3021.3	2961.5	2978.8
15°	4030.5	3991.2	3871.5	3742.4	3544.0	3353.5	3134.7	2933.2	2816.7	2739.5	2744.2
17.5°	4208.4	4173.8	4036.8	3865.2	3607.0	3340.9	3044.9	2774.1	2561.6	2451.4	2448.2
20°	4397.4	4376.9	4227.3	3995.9	3671.6	3312.6	2930.0	2571.0	2278.2	2092.4	2076.7
22.5°	4614.7	4605.2	4430.4	4125.0	3701.5	3248.0	2775.7	2319.1	1930.3	1678.3	1662.6
25°	4899.6	4885.5	4632.0	4214.7	3688.9	3139.4	2560.0	2016.8	1489.4	1199.7	1187.1
27.5°	5242.8	5172.0	4809.9	4260.4	3627.5	2967.8	2278.2	1568.1	1001.3	738.4	732.1
30°	5628.6	5490.0	4965.7	4265.1	3514.1	2728.5	1864.1	1013.9	582.5	415.6	412.5
32.5°	6129.3	5885.2	5134.2	4238.4	3340.9	2405.7	1332.0	581.0	292.8	223.6	223.6
35°	7114.8	6582.7	5349.9	4169.1	3100.1	1944.4	821.9	281.8	171.6	168.5	170.0
37.5°	8579.1	7711.6	5702.6	4057.3	2778.9	1401.2	421.9	157.4	157.4	163.7	165.3
40°	9871.7	8892.4	6211.1	3899.9	2352.2	886.4	201.5	148.0	157.4	159.0	162.2
42.5°	10895.0	9840.2	6748.0	3662.1	1851.5	472.3	168.5	143.3	146.4	144.8	151.1
45°	11713.8	10588.0	7162.1	3350.4	1306.8	242.5	174.8	138.5	127.5	127.5	130.7
47.5°	12351.4	11156.4	7421.9	3011.9	795.1	195.2	174.8	122.8	114.9	116.5	118.1
50°	12911.9	11581.5	7511.6	2594.7	399.9	198.4	168.5	116.5	102.3	103.9	107.1
52.5°	13314.9	11880.6	7443.9	2076.7	220.4	201.5	160.6	107.1	88.2	96.0	99.2
55°	13618.8	12022.3	7220.3	1476.8	200.0	198.4	155.9	96.0	78.7	94.5	99.2
57.5°	13790.4	12069.6	6840.9	962.0	218.8	174.8	143.3	88.2	74.0	92.9	99.2
60°	13861.3	11983.0	6293.0	563.6	223.6	154.3	133.8	81.9	67.7	77.1	80.3
62.5°	13787.3	11761.0	5486.9	355.8	204.7	146.4	127.5	77.1	56.7	55.1	53.5
65°	13492.9	11211.5	4154.9	285.0	190.5	146.4	119.7	67.7	44.1	33.1	29.9
67.5°	12789.1	10077.9	2350.6	281.8	185.8	143.3	108.6	61.4	34.6	17.3	14.2
68°	12576.5	9752.0	1980.6	286.5	190.5	143.3	107.1	58.3	33.1	14.2	11.0
70°	11280.8	7993.4	683.3	275.5	217.3	151.1	102.3	50.4	26.8	6.3	4.7
72.5°	8590.1	4910.6	302.3	222.0	239.3	157.4	102.3	48.8	22.0	1.6	0.0
75°	4994.1	1209.2	258.2	149.6	200.0	187.4	118.1	56.7	20.5	0.0	0.0
77.5°	1210.7	278.7	225.1	86.6	157.4	204.7	140.1	63.0	22.0	0.0	0.0
80°	288.1	217.3	218.8	55.1	126.0	182.6	121.2	67.7	31.5	0.0	0.0
82.5°	190.5	171.6	195.2	29.9	72.4	135.4	85.0	42.5	39.4	0.0	0.0
85°	129.1	157.4	111.8	17.3	28.3	45.7	34.6	6.3	7.9	0.0	0.0
87.5°	72.4	45.7	18.9	7.9	6.3	4.7	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)